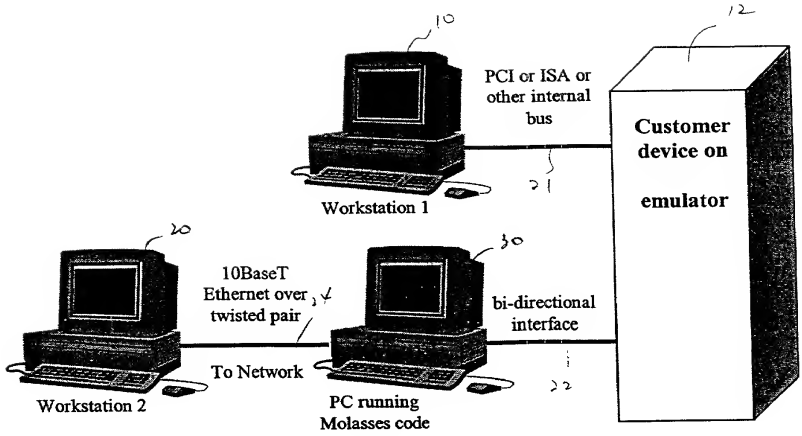


FIGURE 1

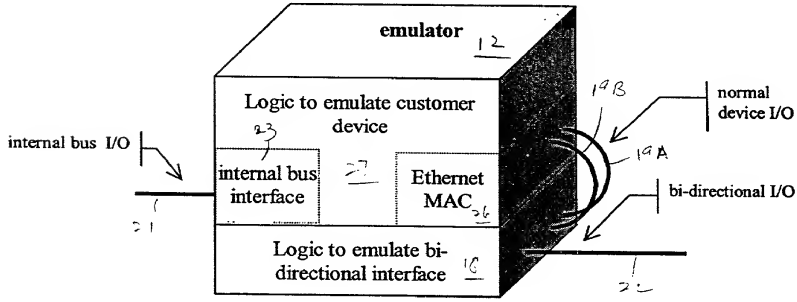
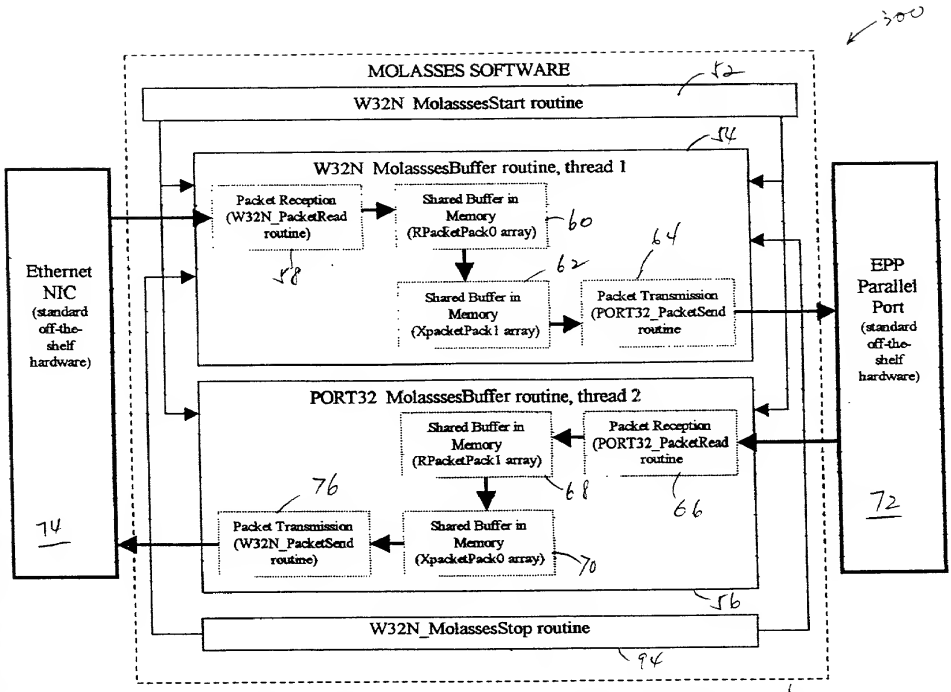


FIGURE 2



Molasses Architecture 1: Two threads running simultaneously

FIGURE 3

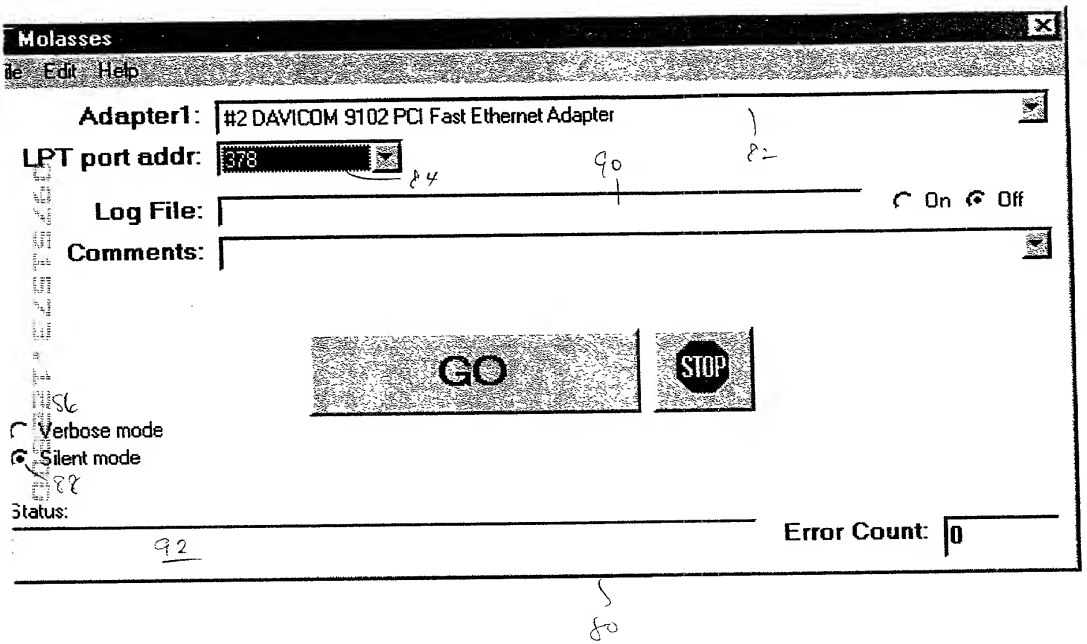

Molasses
ile Edit Help
Adapter1:
#2 DAVICOM 9102 PCI Fast Ethernet Adapter
LPT port addr:
378
Log File:
On
Off
Comments:
GO
STOP
Verbose mode
Silent mode
Status:
Error Count:
0
82
84
90
86
88
92
80

FIGURE 1

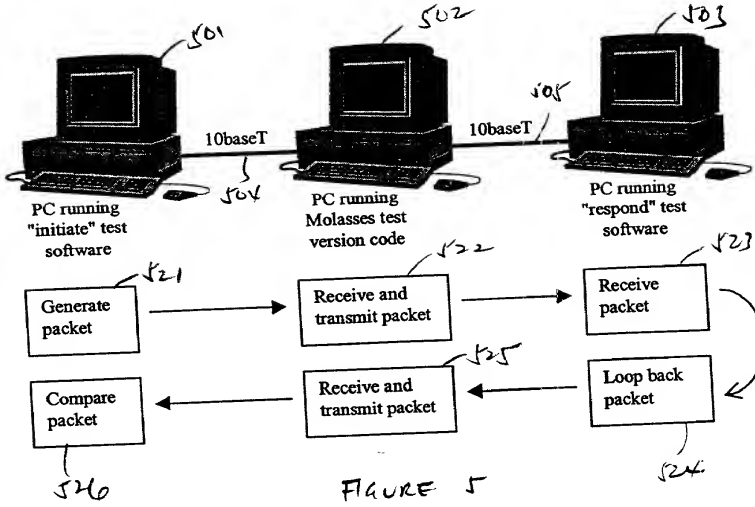
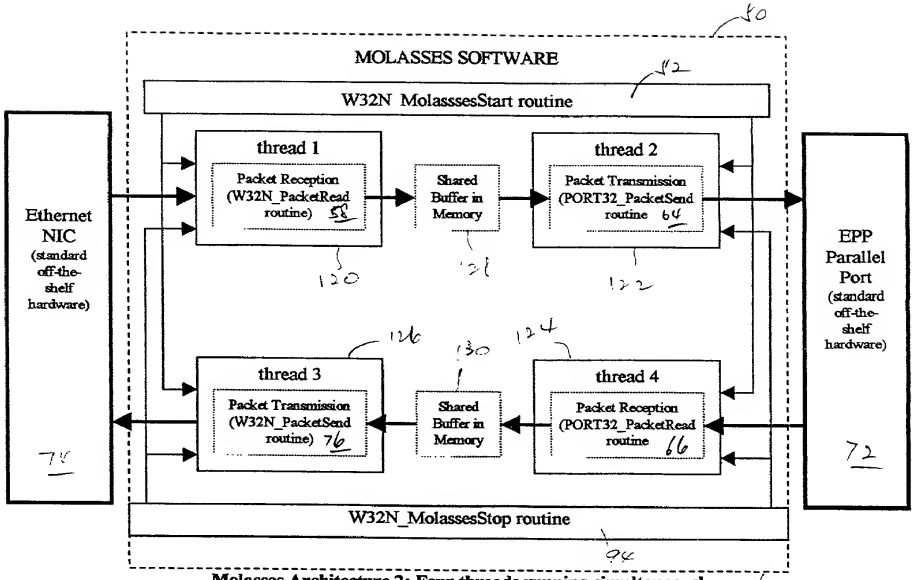

501
502
503
504
505
10baseT
10baseT
PC running "initiate" test software
PC running Molasses test version code
PC running "respond" test software
521
522
523
524
525
526
Generate packet
Receive and transmit packet
Receive packet
Loop back packet
Receive and transmit packet
Compare packet

FIGURE 5


MOLASSES SOFTWARE
W32N_MolasssesStart routine
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Packet Reception (W32N_PacketRead routine) 58
thread 2
Packet Transmission (PORT32_PacketSend routine 64
Shared Buffer in Memory
Ethernet NIC (standard off-the-shelf hardware)
EPP Parallel Port (standard off-the-shelf hardware)
thread 3
Packet Transmission (W32N_PacketSend routine) 76
thread 4
Packet Reception (PORT32_PacketRead routine 66
Shared Buffer in Memory
W32N_MolassesStop routine
Molasses Architecture 2: Four threads running simultaneously

FIGURE 6